

# RUPRI Center for Rural Health Policy Analysis

## Rural Data Update

Brief No. 2020-6

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<http://www.public-health.uiowa.edu/rupri/>

### County-Level 14-Day COVID-19 Case Trajectories

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#### Background

This document updates maps and tables for the Rural Data Brief “County-Level 14-Day COVID-19 Case Trajectories” ([https://ruprihealth.org/publications/policybriefs/2020/County\\_COVID\\_Trajectories.pdf](https://ruprihealth.org/publications/policybriefs/2020/County_COVID_Trajectories.pdf)). This data brief looks at the new case counts in every US county between October 31, 2021, and November 13, 2021, to quantitatively evaluate 14-day trends in metropolitan, nonmetropolitan, and noncore counties. Previous versions of this document can be found at: [https://ruprihealth.org/publications/policybriefs/2020/COVID\\_Projects.html](https://ruprihealth.org/publications/policybriefs/2020/COVID_Projects.html)

Data on confirmed COVID-19 cases were obtained from the Johns Hopkins University COVID-19 Data Repository<sup>1</sup>. The number of cases in each county was aggregated for each week in the two-week period, and the totals for each week were compared. To minimize the impact of counties with very minor real variation in weekly counts, those with a change in case count of two or fewer (either increase or decrease) were coded as “Same number, both weeks.” Counties that saw more than a 25 percent increase or decrease in number of cases between the weeks were labelled “notable” (including counties that went from 3 or more to none [notable decrease] and counties that went from none to 3 or more [notable increase]). Counties in the 50 states and the District of Columbia were classified as metropolitan, nonmetropolitan, or noncore based on Urban Influence Codes<sup>2</sup>.

**Table 1. 14-day trends<sup>a</sup> in newly confirmed COVID-19 cases, by county geography: 10/31/2021 – 11/13/2021**

	Metropolitan (n = 1,166)	Nonmetropolitan (n = 641)	Noncore (n = 1,335)
No cases reported	4 (0.3%)	5 (0.8%)	18 (1.3%)
Decreasing, notable <sup>b</sup>	170 (14.6%)	123 (19.2%)	334 (25.0%)
Decreasing, not notable	218 (18.7%)	120 (18.7%)	134 (10.0%)
Same number, both weeks <sup>c</sup>	98 (8.4%)	68 (10.6%)	292 (21.9%)
Increasing, not notable	277 (23.8%)	88 (13.7%)	99 (7.4%)
Increasing, notable	399 (34.2%)	237 (37.0%)	458 (34.3%)

<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week.

<sup>b</sup>“Notable” trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

<sup>c</sup>Includes counties with an absolute change in count of two or fewer.



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#1U1GRH07633 and #U1C RH20419. The information, conclusions and opinions expressed in this policy brief are those of the authors and no endorsement by FORHP, HRSA, HHS is intended or should be inferred.



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**Table 2. 14-day trends<sup>a</sup> in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 10/31/2021 – 11/13/2021**

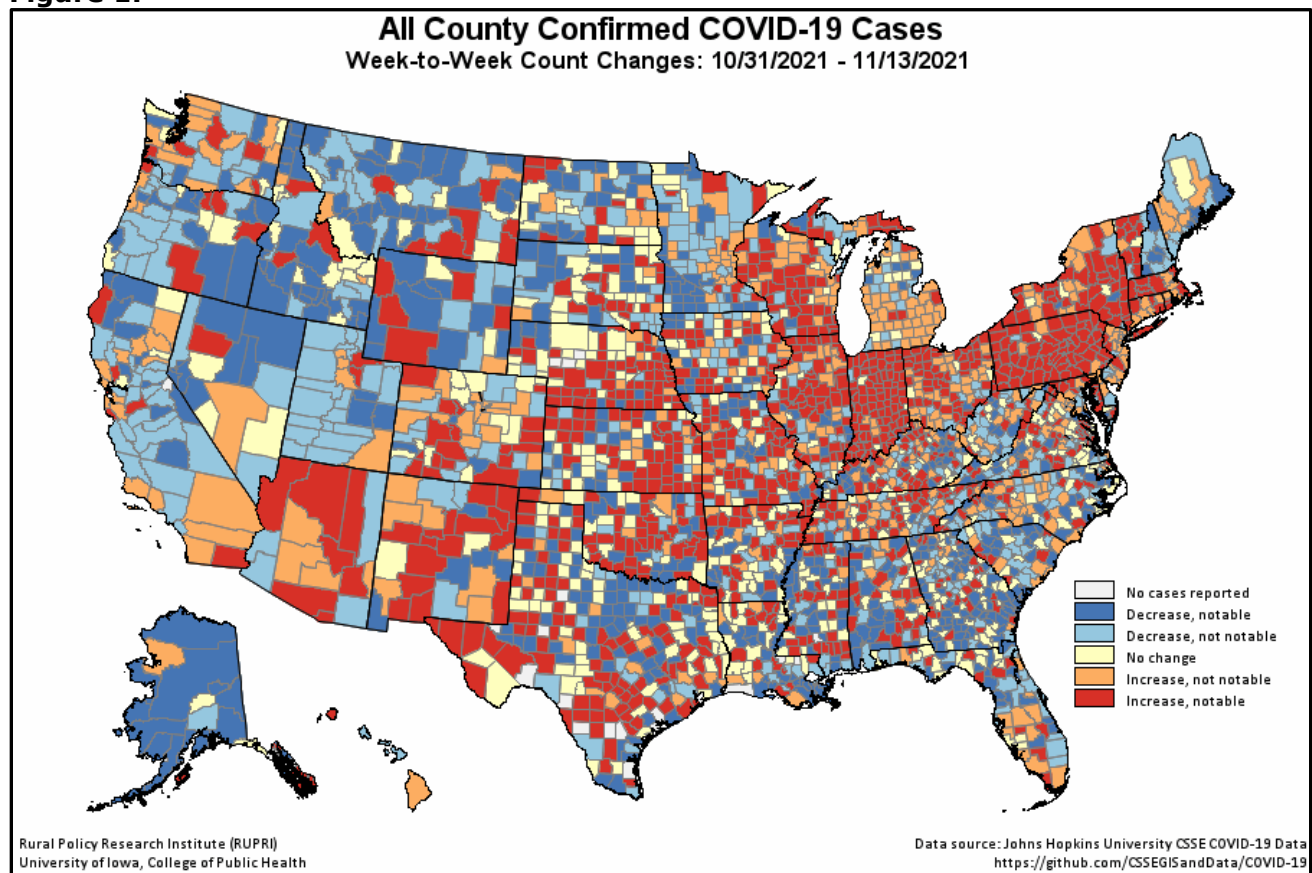
	<b>Metropolitan (n = 1,162 of 1,166)</b>	<b>Nonmetropolitan (n = 636 of 641)</b>	<b>Noncore (n = 1,317 of 1,335)</b>
Any decrease	388 (33.4%)	243 (38.2%)	468 (35.5%)
Notable decrease <sup>b</sup>	170 (14.6%)	123 (19.3%)	334 (25.4%)
Same number, both weeks <sup>c</sup>	98 (8.4%)	68 (10.7%)	292 (22.2%)
Any increase	676 (58.2%)	325 (51.1%)	557 (42.3%)
Notable increase <sup>b</sup>	399 (34.3%)	237 (37.3%)	458 (34.8%)
Increase of 100% or more	71 (6.1%)	46 (7.2%)	186 (14.1%)

<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week.

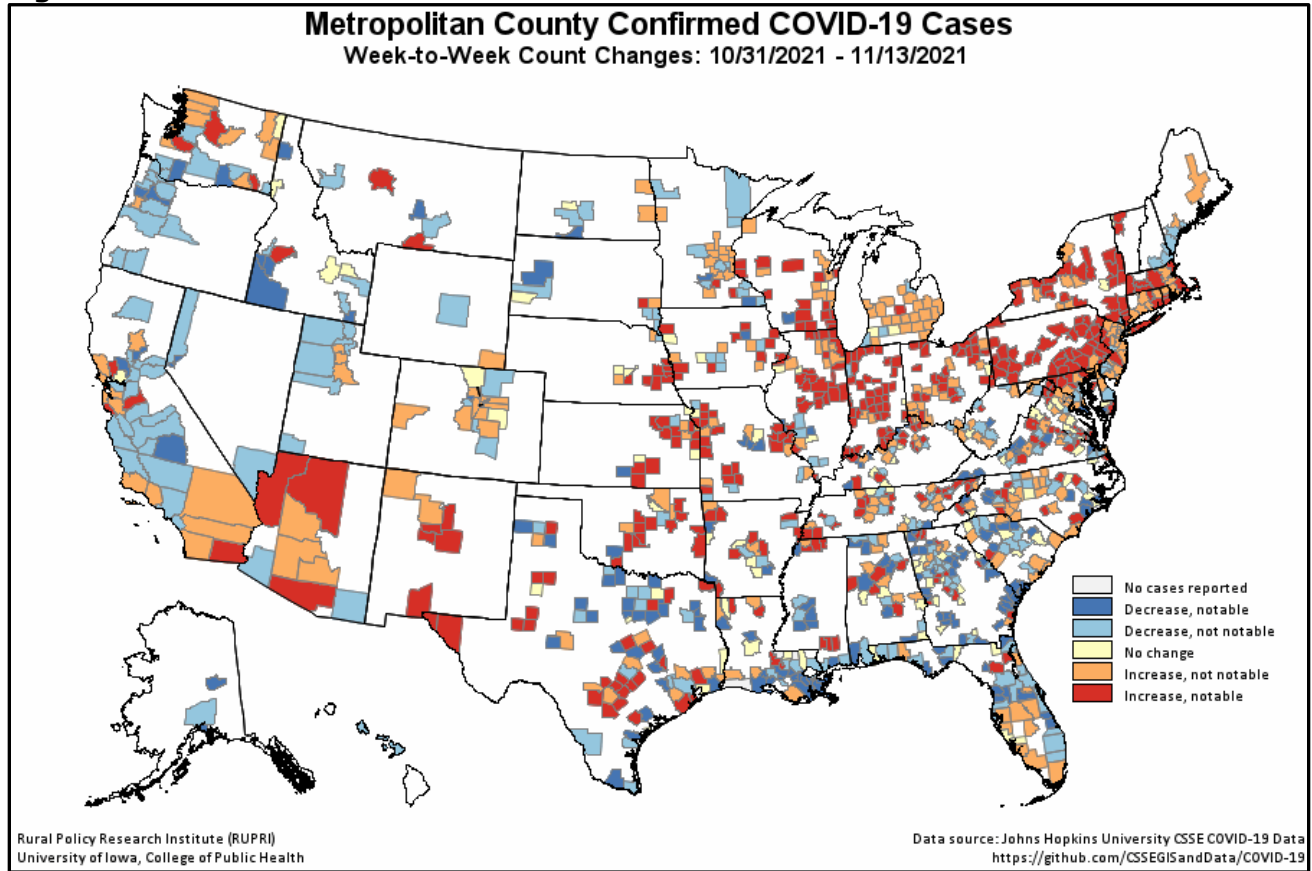
<sup>b</sup>“Notable” trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

<sup>c</sup>Includes counties with an absolute change in count of two or fewer.

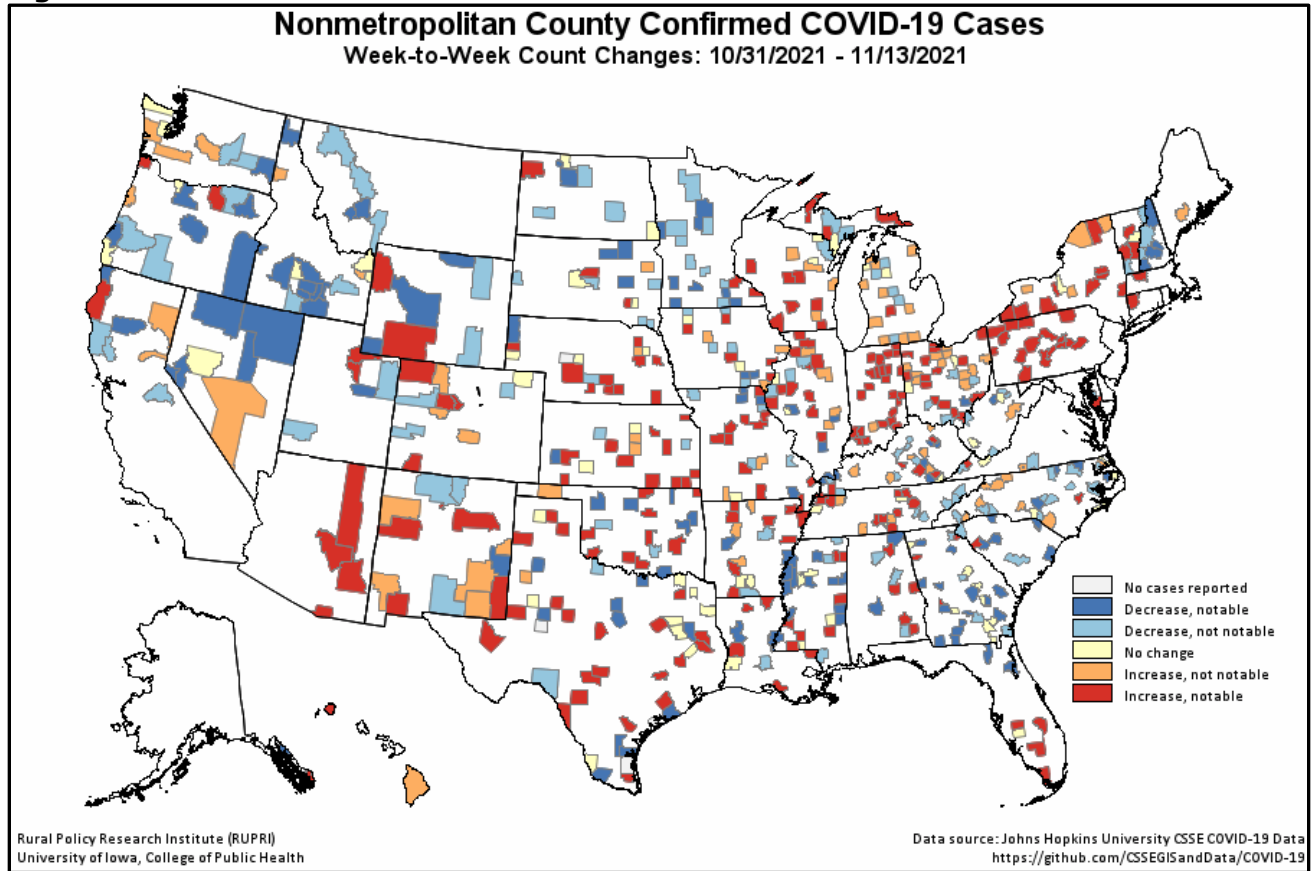
**Figure 1.**



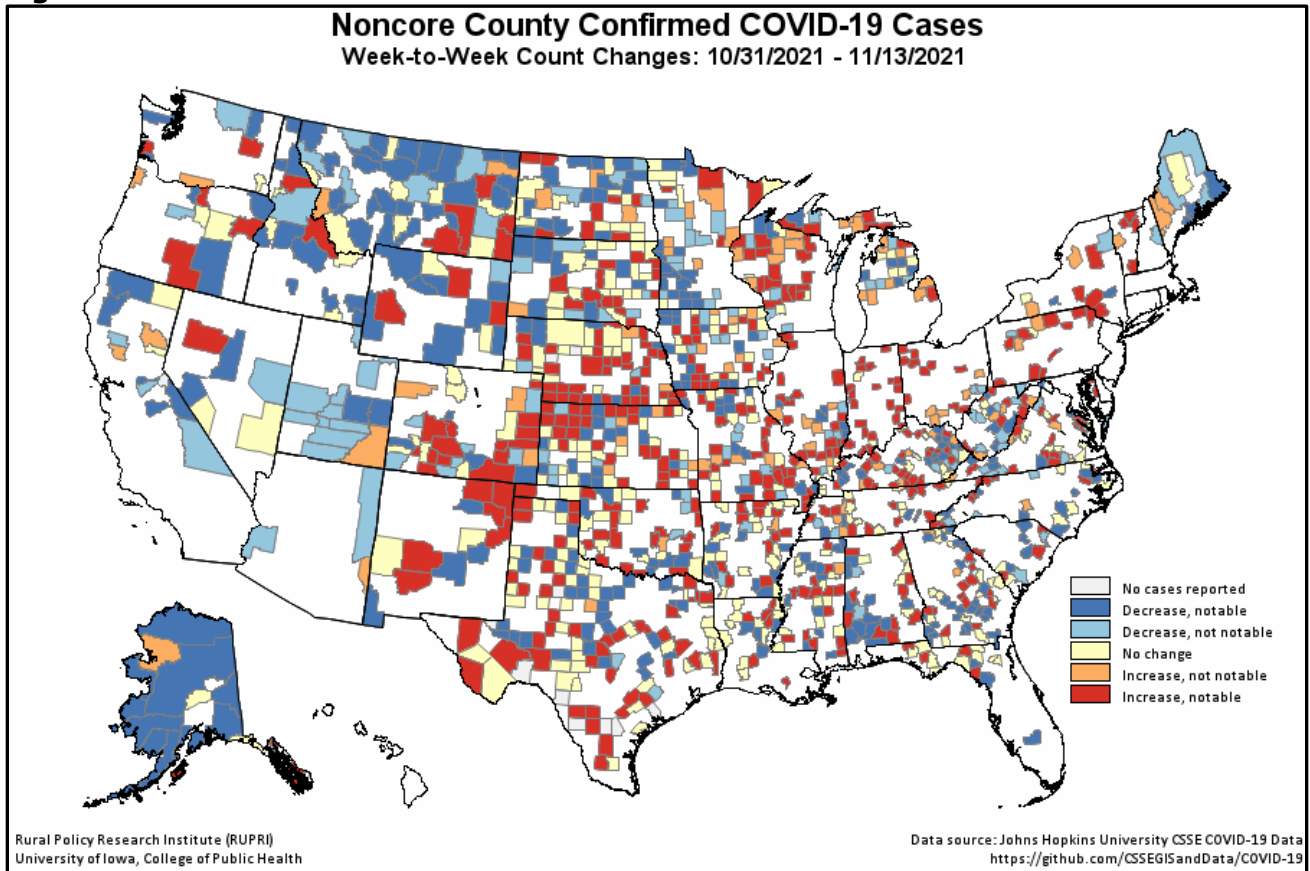
**Figure 2.**



**Figure 3.**



**Figure 4.**



<sup>1</sup> COVID-19 case and death data for this ongoing report were previously obtained from [USAFacts.org](https://usafacts.org). Reports after 8/15/2020 use data from the [COVID-19 Data Repository by the Center for Systems Science and Engineering \(CSSE\) at Johns Hopkins University](https://github.com/CSSEGISandData/COVID-19). While both sources employ similar approaches and resources to produce their data, the Johns Hopkins data is released in a more timely fashion making it more suitable for use in these reports.

Additional changes were made to the report starting 4/26/2021 to better account for the Utah practice of providing aggregated incidence and mortality data for less populous counties.

<sup>2</sup> U.S. Department of Agriculture, Economic Research Service (2019). "Urban Influence Codes." Retrieved May 20, 2020 from <https://www.ers.usda.gov/data-products/urban-influence-codes/>.